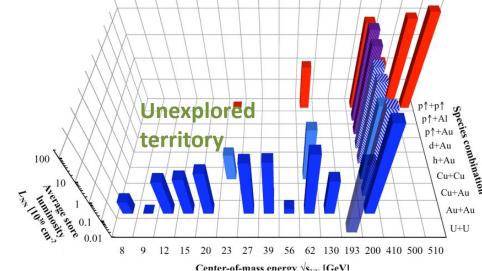
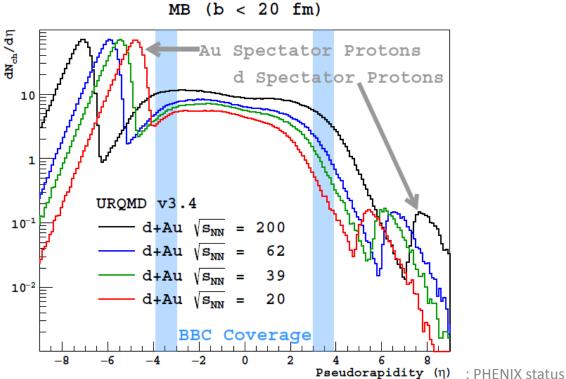
PHENIX Run16 status time meeting 06/13/2016

Denis Jouan PHENIX Run 16 Coordinator

Institut de Physique Nucléaire Orsay, CNRS/IN2P3, université Paris sud, Université Paris Saclay

dAu 20 GeV





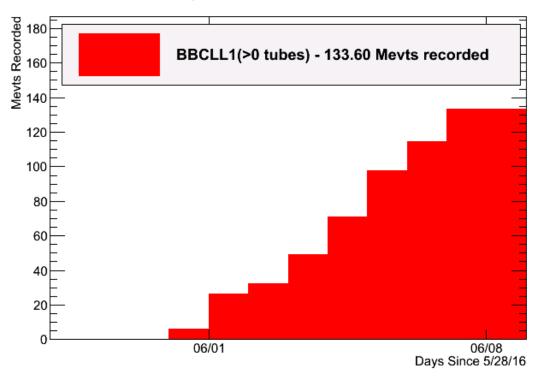
2

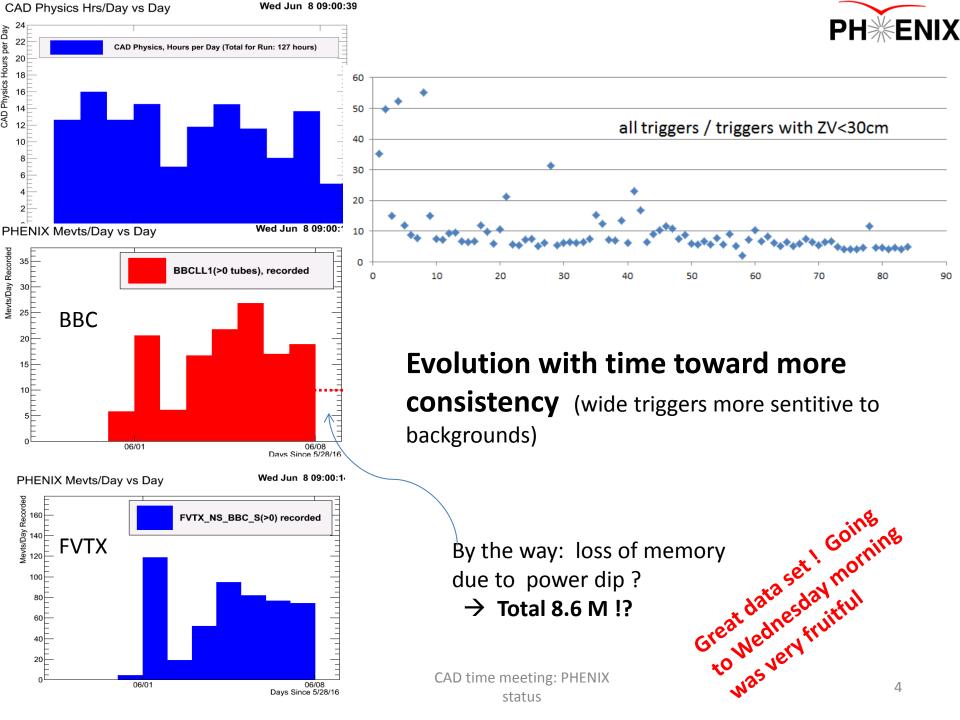


dAu 20 Gev

After offline reconstruction, it is likely that the number of 5% most central events with Zvertex<10cm
Be at least 7.8 M events

Between the 7M BUP goal and the 9M « updated » goal





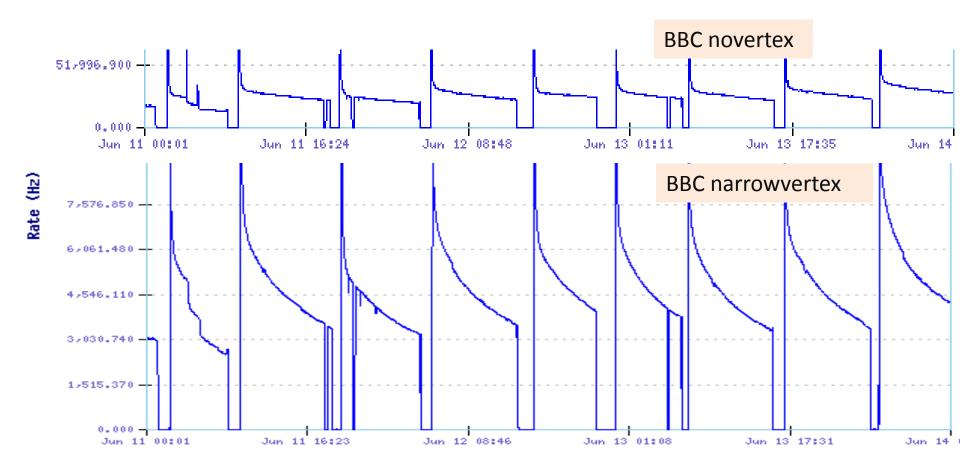
dAu 20 GeV was a challenge, it was difficult and started slowly, but improved a lot through time.

It was very useful to give it enough time.

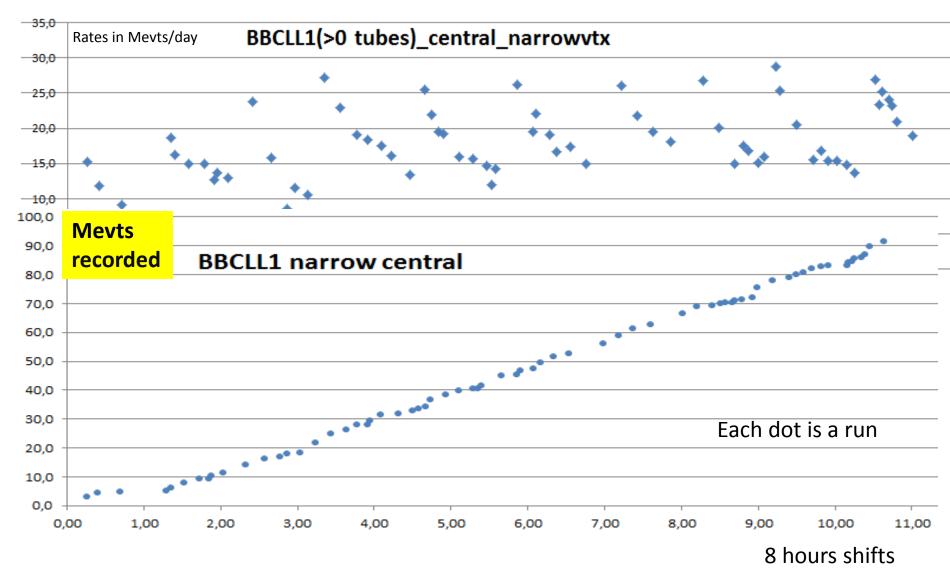
The result is going beyond the BUP goal.

11 days after its start, it is finally a big success!

d-Au 39 GeV: a dream beam?



Very smooth running



How many events in the relevant domain? (Z<10cm, 5% most central)

- Two main triggers: BBC and FVTX, restricted to 15% most central collisions
- FVTX has a wide Zvertex,
- BBCnarrow is already ~Zv<10cm

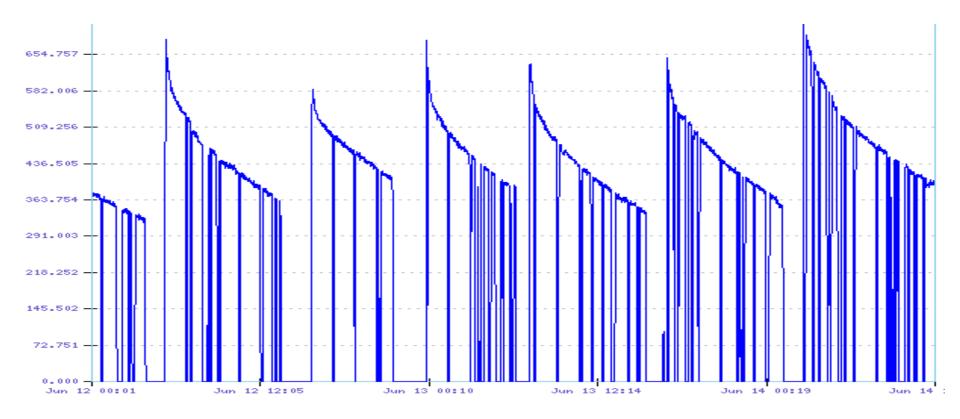
	BBC narrow central	FVTX central
Nevents triggered (Mevts)	102	566
Fraction <10cm	0,9	0,27
Nevts Z<10 (Mevts)	92	153
« Central »/ all centralities	0,132	0,14
5%	0,05	0,05
Nevts 5% most central Z<10	35	55
efficiencies	0,55	0,85
Nevts both triggers	30	30
Total 5% most central Z<10	35+55-30 =	60
Extrap 148/95h	148=7*24-16-4	93

Tuesday, 7AM

From Friday 8AM to Tuesday 7AM 95h, ~2 days lefts. 5Mevents/shift -> 3-4 shifts missing to reach the BUP goal 110Mevts

Even mor (+2) if restricting to FVTX (less biased) triggers. In addition, DAQ inefficiency increases

A DAQ problem developed recently and creates additionnal downtime



Summary

- Difficult start, high backgrounds, for dAu20GeV, but finally thanks to running up to Wednesday morning we have reached the BUP goal and quite reached our updated goal. dAu 20 GeV was a challenge, it is a success!!
- dAu 39 GeV « high precision »: very good beam condition and uptime for the 4 first days of this 6 days period
- Higher rates than foreseen but still need at least one more day (3-4 shifts) to reach BUP (=updated) goal. DAQ problems and trigger imply more.
- And conclude this first (and last?) BES exploration of the small systems with d-A collisions at RHIC

At 20 GeV FVTX sees multiplicity > 1

